

Search query (3): [SP]: what is claimed is: 1. a connector assembly (1) for fiber optic cable (c), characterized by comprising: - a main body (100) - a fixing nut (200) for fixing the main body (100) to a base plate (p) of a fiber optic connection box - an extension nut (600) - a lock nut (400) - an insert (700) comprising a plurality of elastically deformable flexible fingers (703) and - a cable seal (800) wherein the cable seal (800) is snap fitted in a hollow inner space formed by the plurality of flexible fingers (703) of insert (700) thus forming a sub-assembly (700- 800) wherein the sub-assembly (700-800) is introduced at least partially in the main body (100) such that the fingers (703) of insert (700) protrude from the main body (100) when the insert (700) is mounted butt up inside the main body (100) wherein the extension nut (600) is partially screwed in the main body (100) thus forming a hollow inner space into which the plurality of flexible fingers (703) is at least partially received to a position in which at least a distal end of the plurality of flexible fingers (703) contacts with a portion of the inner cavity of the extension nut (600) and wherein a further screwing of the extension nut (600) in the main body (100) causes a radially inwardly deformation of the plurality of flexible fingers (703) and of the seal (800) thus providing a first seal and stress-absorption area to an outer surface of the cable (c) installed in the connector assembly (1). 2. the connector assembly according to claim 1, characterized in that the lock nut (400) is screwed in the extension nut (600) for closing the connector assembly (1). 3. the connector assembly according to claim 1, characterized in that the extension nut (600) comprises: - on an outer part thereof, a tubular section (601), a nut section (602), and a thread section (603), and - on an inner part thereof, a thread recess (604), a first conical section (605), a first tubular section (606), a second conical section (607) and a second tubular section (608). 4. the connector assembly according to any one of the preceding claims, characterized by further comprising a ferrule (500) having a center tubular section (501), two slope sections (502) adjacent to each end of the center tubular section (501), and a through bore (503), wherein the ferrule (500) is installed in a hollow inner space formed between the extension nut (600) and lock nut (400) for generating a second seal and stress-absorption area to the cable (c). 5. the connector assembly according to any one of the preceding claims, characterized in that the main body (100) comprises: - on an outer part thereof, a first thread section (101), a nut section (102), and a second thread section (103) and - on an inner part thereof, a first tubular section (104), a conical section (106), a second tubular section (107), a circumferential recess (108), and an annular recess (109) in a back face of the nut section (102). 6. the connector assembly according to claim 5, characterized by further comprising an o- ring (300) for generating a seal between the nut section (102) and a front surface of the base plate (p) when tightening the fixing nut (200) in the main body (100). 7. the connector assembly according to claim 6, characterized in that the o-ring (300) is received at least partially in the annular recess (109) of main body (100) to generate the seal between the nut section (102) and the base plate (p). 8. the connector assembly according to claim 5, characterized in that the main body (100) further comprises a plurality of longitudinal channels (105) formed in a surface of the first inner tubular section (104). 9. the connector assembly according to any one of the preceding claims, characterized in that the insert (700) further comprises a main tubular body (701) and a second tubular body (702) having an inner circumferential cavity (706) wherein the plurality of fingers (703) project from the second tubular body (702) wherein each finger (703) comprises a base portion (703a) and a gripping portion (703b), and the gripping portions (703b) of the flexible fingers (703) are formed projecting radially inwardly at an angle (a) such that adjacent gripping portions (703b) are brought into contact with one another when they deformed radially inwardly due to tightening of the extension nut (600) in the main body (100). 10. the connector assembly according to claim 9, characterized in that the insert (700) further comprises a plurality of longitudinal protrusions (704) formed in a surface of the main tubular body (701). 11. the connector assembly according to claims 8 and 10, characterized in that the longitudinal protrusions (704) of insert (700) are received in the longitudinal channels (105) of main body (100) to guide introduction and at least partially prevent rotation of insert (700) relative the main body (100). 12. the connector assembly according to claim 9, characterized in that the insert (700) further comprises a plurality of circumferential protrusions (705) spaced apart from each other, which are formed in a surface of the tubular main body (701) to reinforce the main tubular body (701). 13. the connector assembly according to claim 9, characterized in that the plurality of flexible fingers (703) are spaced apart by gaps (703c). 14. the connector assembly according to any one of the preceding claims, characterized in that at least one of the main body (100), fixing nut (200), lock nut (400) and extension nut (600) is made of metal. 15. the connector assembly according to claim 14, characterized in that the metal is selected from the group consisting of: steel, bronze, brass, in particular tin plated brass, and aluminium. 16. the connector assembly according to any one of claims 1 to 13, characterized in that at least one of the main body (100), fixing nut (200), lock nut (400), extension nut (600) and insert (700) is made from a plastic material. 17. the connector assembly according to claim 16, characterized in that the plastic material is made of, or comprises, nylon. 18. the connector assembly according to any one of the preceding claims, characterized in that at least one of the o-ring (300), ferrule (500) and cable seal (800) is made of a rubber-based material, in particular buna-n, or a silicone-based material. 19. a method of forming a connector assembly (1) in a base plate (p) of a fiber optic connection box, characterized by comprising the steps of: a) providing a main body (100) b) providing a fixing nut (200) c) fixing the main body (100) in an opening of the base plate (p) by means of the fixing nut (200) d) providing a lock nut (400) e) providing an extension nut (600) f) providing an insert (700) comprising a plurality of elastically deformable flexible fingers (703) g) providing a cable seal (800) h) mounting the cable seal (800) in a hollow inner space formed by the plurality of flexible fingers (703) of insert (700) thereby forming a sub-assembly (700-800) i) positioning in sequence from a distal end towards a proximal end of the fiber optic cable (c) the lock nut (400), the extension nut (600) and the sub-assembly (700-800) j) passing the distal end of the cable (c) through the main body (100) to a position where a substantial portion of the distal end of cable (c) protrudes from the base plate (p) and main body (100) k) introducing the sub-assembly (700-800) in the main body (100) to a position where the plurality of fingers (703) is adjacent to and protrude from the main body (100) l) screwing the extension nut (600) in the main body (100) to a position in which a radially inwardly deformation is caused to the plurality of flexible fingers (703) and seal (800), thus producing a first seal and stress-absorption area to an outer surface of cable (c) m) screwing the lock nut (400) in the extension nut (600) to close the connector assembly (1). 20. the method according to claim 19, characterized by further comprising, before step (c), positioning an o-ring (300) between the main body (100) and a front surface of base plate (p) to generate a seal between them. 21. the method according to any one of claims 19 to 20, characterized by further comprising, after step (d) and before step (e), providing an elastically deformable ferrule (500). 22. the method according to claim 21, characterized by further comprising, in step (i), positioning the ferrule (500) between the lock nut (400) and the extension nut (600). 23. the method according to claim 22, characterized by further comprising, before step (m), partially inserting the ferrule (500) in the extension nut (600). 24. the method according to claim 23, characterized by further comprising screwing the lock nut (400) in the extension nut (600) such that the ferrule (500) is accommodated inside a hollow inner space formed at least partially by the lock nut (400) and the extension nut (600) wherein the ferrule (500) is elastically deformed in said inner space, thus producing a second seal and stress-absorption area to the fiber optic cable (c). 25. the method according to claim 24, characterized by further comprising causing a further screwing of the lock nut (400) in the extension nut (600) to a position in which the ferrule (500) is so deformed that it partially protrudes from the lock nut (

Results: 6

1) Family number: 1930194 (US4375011A)

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Title: Cable connector
Priority: DE19803017383 19800507
Family:

Publication number	Publication date	Application number	Application date
DE3017383 A1	19811112	DE19803017383	19800507
DE3017383 C2	19820506	DE19803017383	19800507
EP0039447 A1	19811111	EP19810103052	19810423
JP57003378 A2	19820108	JP19810066122	19810430
US4375011 A	19830222	US19810241371	19810306

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Assignee(s):(std): DEIITORITSUHI GURUNAU ; GRUENAU DIETRICH ; GRUNAU DIETRICH
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Inventor(s):(std): DEIITORITSUHI GURUNAU ; GRUENAU DIETRICH ; GRUNAU DIETRICH
Inventor(s): GRUENAU DIETRICH 7778 MARKDORF DE
Designated states: AT BE CH DE FR GB IT NL SE
International class H01R13/52 H02G3/06 (Advanced/Invention)
(IPC 8-9):
International class H01R13/52 H02G3/06 H02G3/18
(IPC 1-7):
CPC: H02G3/0641
European class: H02G3/06C1D

US class: 174/653 174/65SS 277/112 277/208 277/606 277/622 277/626

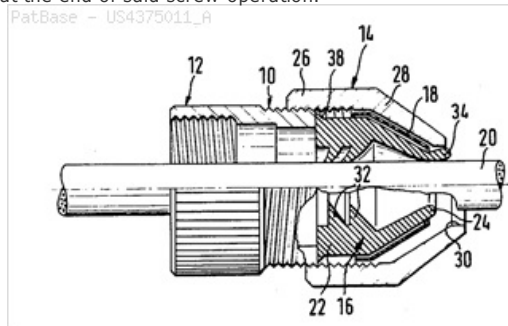
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Cited documents: US4022966 A, US3567843 A, US2941025 A, US2857176 A, US2021745 A, NL6404678 A, JP51132493 A2, JP27000233 A2, FR2358766 A1, DE679653 A, DE2835832 A1, DE2720137 A1, DE2631996 A1, DE2547914 A1, DE2133814 A1, DE1911652 A1, DE1857080 U,

Forward Citations: WO17077408, USD454115, US9893507, US8771045, US6929265, US6528725, US6448496, US6350955, US6284973, US6194659, US6069316, US5920035, US5626785, US5062648, US4697861, US4686738, US4460227, US2017110224, US2013102235, US2012178290, US2006219437, US2004245730, US2004119246, JP62180876, GB2391721, EP0780944, DE9000964, DE3640832, DE3519014, DE29520508, AU585257,

Abstract:

A cable connector comprises a screw socket, a screw nut, a packing within the screw nut and an anti-rotation bushing between the packing and the screw nut. The screw nut, packing and bushing are provided with conical portions respectively which have the same angle of taper and substantially the same axial length. Between a cylindrical portion of the packing and the threaded portion of the screw nut an annular recess is formed into which a cylindrical rim of the bushing protrudes. The screw nut can easily be screwed on the socket only by hand because of the low friction effect between the bushing and the screw nut, thereby deforming the packing whereby a fluid-tight seal between the socket and the cable is gained and the cable is secured against twisting during the screw-operation and secured against axial movement at the end of said screw-operation.



2) Family number: 3804200 (US5051541A)

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Title: PLASTIC ELECTRICAL CONNECTOR FOR LIQUIDTIGHT CONDUIT

Priority: US19900498295 19900323 CA19912038459 19910318

Family:	Publication number	Publication date	Application number	Application date
	CA2038459 AA	19910924	CA19912038459D	19910318
	CA2038459 C	19940419	CA19912038459D	19910318
	US5051541 A	19910924	US19900498295	19900323

Probable Assignee: THOMAS AND BETTS INT INC

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Assignee(s): THOMAS AND BETTS INT ; THOMAS AND BETTS INT INC ; BAWA JASPAL S ; COUTO LUIS R ; MANCINI GIACOMO F ; THOMAS AND BETTS 1001 FRONTIER ROAD BRIDGEWATER SOMERSET COUNTY NJ 08807 A CORP OF NJ CORP

Inventor(s):(std): BAWA JASPAL S ; COUTO LUIS R ; MANCINI GIACOMO F

Agent(s): MACRAE AND CO

International class (IPC 8-9): F16L33/22 F16L47/04 H02G15/013 H02G15/04 (Advanced/Invention); F16L33/22 F16L47/00 (Core/Invention)

International class (IPC 1-7): F16L33/22 H02G15/013 H02G15/04

CPC: H02G3/0675 H02G3/088 F16L33/223 F16L47/04

European class: F16L33/22G F16L47/04

US class: 174/655 174/65SS 285/151.1 285/161 285/343

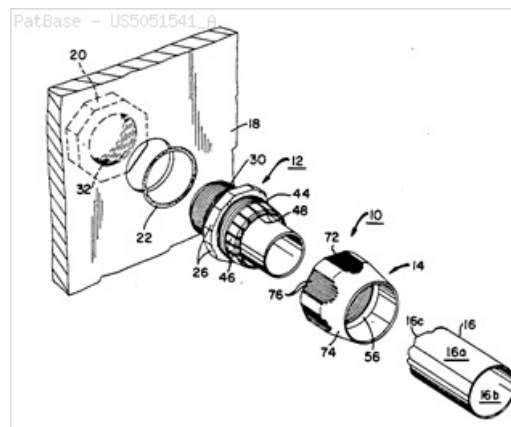
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Forward Citations: WO17077408, WO16095924, WO10141090, WO10141090, USD749407, USD721334, US9989175, US9647432, US9386715, US9325163, US9312672, US9068673, US7749021, US7048561, US7048561, US6852922, US6394464, US5939675, US5857860, US5756972, US5676183, US5529098, US5341857, US5318459, US5302138, US5295851, US5285829, US2015377474, US2015136474, US2013214531, US2010084855, US2009221177, US10014673, US10006570, FR2911727, FR2820888, DE19907001, AU669374,

Abstract:

A plastic electrical connector for connecting liquidtight flexible electrical conduit to an electrical component such as a junction box or outlet, comprises a plastic body and a plastic gland nut threadably attached thereto. The body includes a plurality of flexible fingers, each of which includes a collapsible section defined by plural, discrete hinges, the deformable section being bendable at each hinge. Gripping teeth are provided on the interior surface of the ends of the flexible fingers. The gland nut includes an inclined surface engageable with the flexible fingers for causing radial compression against the conduit. The gland nut further includes a pushing surface for engaging the distal end of the flexible fingers, which are preferably arranged in cantilevered form. Upon tightening the gland nut on the body, the gripping fingers engage the conduit, and as the collapsible sections bend, the fingers axially move the conduit deeper into the connector for a liquidtight seal therewith.



3) Family number: 15612285 (US6268565B)

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Title: CABLE SEAL FOR SUBMERGED ENCLOSURES

Priority: US19990455612 19991206

Family:

Publication number	Publication date	Application number	Application date
US6268565 BA	20010731	US19990455612	19991206

Probable Assignee: AVAYA TECHNOLOGY CORP

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Assignee(s): BANK OF NEW YORK ; LUCENT TECHNOLOGIES INC ; AVAYA INC WAS KNOWN AS AVAYA TECHNOLOGY CORP..

Inventor(s):(std): DAOUD BASSEL HAGE

International class (IPC 8-9): G02B6/44 H02G15/013 H02G15/14 H02G3/08 (Advanced/Invention); G02B6/42 (Advanced/Non-invention); G02B6/44 H02G15/00 H02G15/10 H02G3/08 (Core/Invention); G02B6/42 (Core/Non-invention)

International class (IPC 1-7): H02G3/18

CPC: H02G15/013 G02B6/4248 G02B6/4428 G02B6/4471 H02G3/0675 H02G3/088 H02G15/14

European class: G02B6/44C8Z H02G15/013 H02G15/14 H02G3/08D S02B6/42C7 S02B6/44C6B1

US class: 174/657 174/65R 174/65SS 285/161 285/348 439/98

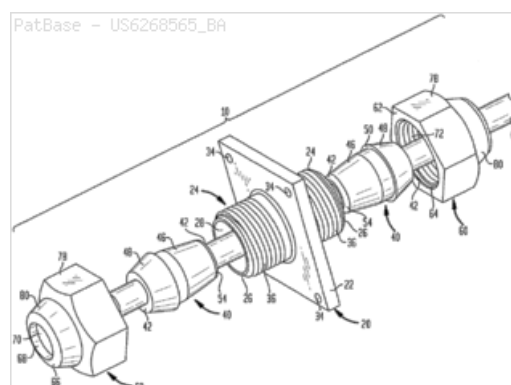
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Cited documents: US6034325 A, US5934937 A, US5920035 A, US5857716 A, US5766037 A, US5648639 A, US5621191 A, US4169967 A,

Forward Citations: WO17077408, WO08074965, USRE38294, USD787648, US9787070, US9704620, US9698588, US9368950, US9343883, US9172179, US8745819, US8604362, US8513543, US8500497, US8317531, US8170390, US8106313, US8007302, US7976070, US7633011, US7604261, US7400811, US7390027, US6812406, US6743980, US6443457, US2017110224, US2015155079, US2014326498, US2014179149, US2014178185, US2014060927, US2014057499, US2013125340, US2013025932, US2010059989, US2010003001, US2009311910, US2009288877, US2008143103, US2008110660, US2007192971, US2006210231, US2005077722, US2004074662, GB2425365, FR2883385, EP3379313, EP1703308, EP1703308, AU2006352194,

Abstract:

A cable sealing arrangement is provided for limiting the ingress of fluid into a location about a cable, such as a telephone wire enclosure, which generally includes a fitting, two sealing members, and two nuts. The sealing arrangement provides multiple redundant seals defined by the interfaces of tapered surfaces on the sealing members and the fitting, as well as, the interfaces of tapered surfaces on the sealing members and the nuts. By tightening the nuts onto the fitting, the nuts cause compression of the sealing members resulting in tight engagement of a cable.



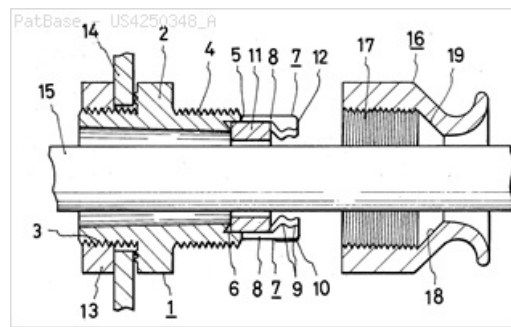
4) Family number: 29582336 (US4250348A)

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Title: Clamping device for cables and the like

Priority: JP19780008323U 19780126

Family:	<table><tr><th>Publication number</th><th>Publication date</th><th>Application number</th><th>Application date</th></tr><tr><td>DE2902174 A1</td><td>19790802</td><td>DE19792902174</td><td>19790120</td></tr><tr><td>DE2902174 C2</td><td>19841004</td><td>DE19792902174</td><td>19790120</td></tr><tr><td>FR2415735 A1</td><td>19790824</td><td>FR19790001661</td><td>19790123</td></tr><tr><td>FR2415735 B1</td><td>19850322</td><td>FR19790001661</td><td>19790123</td></tr><tr><td>GB2013420 A1</td><td>19790808</td><td>GB19790000590</td><td>19790108</td></tr><tr><td>GB2013420 B2</td><td>19820804</td><td>GB19790000590</td><td>19790108</td></tr><tr><td>JP54111799 U1</td><td>19790806</td><td>JP19780008323U</td><td>19780126</td></tr><tr><td>JP57044731 Y2</td><td>19821002</td><td>JP19780008323U</td><td>19780126</td></tr><tr><td>US4250348 A</td><td>19810210</td><td>US19780974226</td><td>19781229</td></tr></table>	Publication number	Publication date	Application number	Application date	DE2902174 A1	19790802	DE19792902174	19790120	DE2902174 C2	19841004	DE19792902174	19790120	FR2415735 A1	19790824	FR19790001661	19790123	FR2415735 B1	19850322	FR19790001661	19790123	GB2013420 A1	19790808	GB19790000590	19790108	GB2013420 B2	19820804	GB19790000590	19790108	JP54111799 U1	19790806	JP19780008323U	19780126	JP57044731 Y2	19821002	JP19780008323U	19780126	US4250348 A	19810210	US19780974226	19781229
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Probable Assignee:	KITAGAWA IND CO LTD																																								
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International class (IPC 8-9):	F16B7/14 F16L3/08 F16L5/06 H01B17/58 H02G3/06 H02G3/08 (Advanced/Invention); F16B7/00 F16L3/08 F16L5/02 H01B17/58 H02G3/02 H02G3/08 (Core/Invention)																																								
International class (IPC 1-7):	F16B2/06 F16B21/02 F16B7/14 F16B9/02 F16L21/02 F16L3/00 F16L5/02 H01B17/58 H02G3/08 H02G3/22 H05K7/02																																								
CPC:	F16L5/06 H02G3/065																																								
European class:	F16L5/06 H02G3/06C 1F																																								
US class:	174/652 174/655 174/65SS 285/149.1 285/322 285/343																																								
JP class F-Term:	3H023 3H023/AA04 3H023/AB02 3H023/AC21 3H023/AC43 3H023/AC77 3H023/AD16 3H023/AD24 3H023/AD31 3H023/AE09 3J039 3J039/AA03 3J039/BB01 3J039/CA01 3J039/CA12 3J039/FA15 3J039/GA01 3J039/MA01 5E202 5E202/AA02 5E202/AB12 5E202/AC09 5E202/AE01 5G333 5G333/AA07 5G333/AA09 5G333/AA11 5G333/AB29 5G333/CB02 5G333/CB20 5G333/CC01 5G333/CC04 5G333/DA03 5G333/EA02 5G333/EB08 5G361 5G361/AA02 5G361/AB12 5G361/AC09 5G361/AE01																																								
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Abstract:	A locking device is disclosed, which comprises a hollow cylindrical body having a plurality of annularly disposed independent gripping pieces projected from one end thereof and a clamping pipe threadably engageable about the outer periphery of the cylindrical body about its side of the gripping pieces. An elastic packing pipe is provided by fitting in contact with the inner circumferential faces of the gripping pieces, and the clamping pipe is tapered about the inner circumferential face of an end portion thereof so that about the outer periphery of their top end portions, the gripping pieces can abut against and be pressed radially toward the center of the device by the tapered end portion of the clamping pipe. Also, means such as notches and/or projections directed opposite to the lead direction of the male screw of the cylindrical body are provided, by which the top end portions of gripping pieces and the tapered portion of the clamping pipe are mutually fixed. This locking device is advantageously used for locking a cable or the like to a fixing member such as a wall.																																								



5) Family number: 65616355 (WO17077408A1)

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Title:

CONNECTOR ASSEMBLY FOR FIBER OPTIC CABLES HAVING ABSORPTION OF INNER STRESSES AND INNER SEALING FOR MOUNTING IN A FIBER OPTIC CONNECTION BOX

Priority:

MX20150015305 20151103WO20161B56109 20161012

Family:

Publication number	Publication date	Application number	Application date
CO20170012475 A2	20180228	CO20170012475	20171201
MX2015015305 A1	20170502	MX20150015305	20151103
WO17077408 A1	20170511	WO20161B56109	20161012

Probable Assignee:

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PEREZ DAVILA WILLIAM ; WILLIAM PEREZ DAVILA

Agent(s):

JUAN CARLOS CUESTA QUINTERO; GONZALEZ ROSSI ALEJANDRO GABRIEL ET AL

Designated states:

AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9):

F16L37/00 F16L41/14 G02B6/24 H01R13/622 H02G15/007 H02G15/04 H02G3/06 H02G3/08 H02G3/22 (Advanced/Invention)

CPC:

F16L5/08 H02G3/22 H02G15/007 G02B6/4471 G02B6/4444

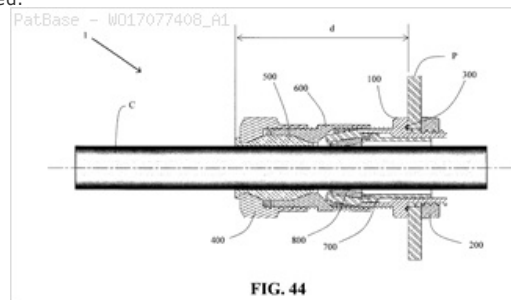
[Classification Explorer](#)

Cited documents:

US6268565 BA, US5051541 A, US4375011 A, US4250348 A, US2015200530 AA,

Abstract:

A connector assembly for fiber optic cable is provided, which is able to be mounted in a fiber optic connection box and which is particularly useful for absorbing inner stresses generated on the fiber optic cable and simultaneously producing improved sealing between the connector assembly and said cable. Connector assembly comprises a main body and a fixing nut by means of which said main body is installed in a base plate of the connection box. Optionally, connector assembly further comprises an O-ring mounted between the main body and the base plate. Connector assembly further comprises a sub-assembly formed by an insert and a seal; an extension nut which is designed to cause deformation onto the sub-assembly thus providing a first seal and stress-absorption zone; a lock nut; and a ferrule; wherein the ferrule is installed between, and is deformed by, the main body and the lock nut such that a second stress-absorption and sealing zone is produced.



6) Family number: 59779593 (US2015200530A)

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Title:	CABLE AND FLEXIBLE CONDUIT GLAND ASSEMBLY			
Priority:	US20140153808 20140113		US20170400053 20170106	
Family:	Publication number	Publication date	Application number	Application date
	US2015200530 AA	20150716	US20140153808	20140113
	US2017117696 AA	20170427	US20170400053	20170106
	US9601914 BB	20170321	US20140153808	20140113
	US9876341 BB	20180123	US20170400053	20170106
Probable Assignee:	AVC INDUSTRIAL CORP			
Assignee(s):(std):	AVC IND CORP			
Assignee(s):	AVC INDUSTRIAL CORP			
Inventor(s):(std):	CHIU TEH TSUNG			
Agent(s):	MING; SINORICA LLC			

International class H01B7/04 H02G15/007 H02G15/013 H02G15/08 H02G3/06 (Advanced/Invention)
(IPC 8-9):

CPC: H02G15/007 H02G3/0675 H02G3/0691 H02G3/0616 H01B7/04 H02G15/013

US class: 174/653 174/655

[Classification Explorer](#)

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DE202009003174 U1

Forward Citations: WO17153946, WO17077408, US9905337, US9876341, US9716377, US9371948, US2017288337, US2017117696, US2017117070, US2017110224, US2016336097, US2015048614, US10141686, CN107123502,

Abstract:

A cable and flexible conduit gland assembly includes a mounting member mounted in a predetermined object, one or multiple connection members, an outer cap, and one packing device and one or multiple auxiliary clamping sleeves mounted in the mounting member between the connection members and the outer cap and compressible by the outer cap and the connection members to wrap about the periphery of an inserted cable and to provide multiple packing effects. Thus, the cable and flexible conduit gland assembly has high IP rating, and is practical for dynamic mechanical application, or application in a deep-water environment or high explosive atmosphere.

